Centre for oil and gas – DTU - DTU Orbit (15/02/2018)
Centre for oil and gas – DTU
Center
Organisational unit: Center

Publications:

A three-dimensional coupled thermo-hydro-mechanical model for deformable fractured geothermal systems
Publication: Research - peer-review › Journal article – Annual report year: 2018

Fracture mechanics approach to optimize inspection planning of offshore welds for wind turbines
Publication: Research › Ph.D. thesis – Annual report year: 2018

Heat Recovery from Multiple-Fracture Enhanced Geothermal Systems: The Effect of Thermoelastic Fracture Interactions
Publication: Research - peer-review › Journal article – Annual report year: 2018

Synergy potential for oil and geothermal energy exploitation
Publication: Research - peer-review › Journal article – Annual report year: 2018

Thermoporoelastic effects during heat extraction from low-permeability reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2018

METHOD OF MANUFACTURING A COMPOSITE STRUCTURE INCLUDING A TEXTILE FABRIC ASSEMBLY
Fischer, G. 14 Jun 2017
Publication: Research › Patent – Annual report year: 2017

A case hardened component of titanium
Christiansen, T. L., Jellesen, M. S., Somers, M. A. J. & Gammeltoft-Hansen, N. B. 2 Jun 2017
Publication: Research › Patent – Annual report year: 2017

Additively manufactured metallic porous biomaterials based on minimal surfaces: A unique combination of topological, mechanical, and mass transport properties
Publication: Research - peer-review › Journal article – Annual report year: 2017

An evaluation of interferences in heat production from low enthalpy geothermal doublets systems
Publication: Research - peer-review › Journal article – Annual report year: 2017

An integrated workflow for stress and flow modelling using outcrop-derived discrete fracture networks
Publication: Research - peer-review › Journal article – Annual report year: 2017

Applying LCA in decision making- the need and the future perspective
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017
Calibration of the NDHA N2O model via respirometric assays
Domingo-Felez, C., Calderó-Pascual, M., Sin, G., Plósz, B. G. & Smets, B. F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Complementary Methods for the Characterization of Corrosion Products on a Plant-Exposed Superheater Tube
Publication: Research - peer-review › Journal article – Annual report year: 2016

Data Requirements and Modeling for Gas Hydrate-Related Mixtures and a Comparison of Two Association Models
Liang, X., Aloupis, G. & Kontogeorgis, G. M. 2017 In : Journal of Chemical and Engineering Data. 62, 9, p. 2592-2605
Publication: Research - peer-review › Journal article – Annual report year: 2017

Economic Optimizing Control for Single-Cell Protein Production in a U-Loop Reactor
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Effect of Foam on Liquid Phase Mobility in Porous Media
Eftekhari, A. A. & Farajzadeh, R. 2017 In : Scientific Reports. 7, 8 p., 43870
Publication: Research - peer-review › Journal article – Annual report year: 2017

Effect of Poroelasticity on Hydraulic Fracture Interactions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Electrical Double-Layer and Ion Bridging Forces between Symmetric and Asymmetric Charged Surfaces in the Presence of Mono- and Divalent Ions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Energy and exergy analysis of alternating injection of oxygen and steam in the low emission underground gasification of deep thin coal
Publication: Research - peer-review › Journal article – Annual report year: 2017

Experimental investigation of interfacial crack arrest in sandwich beams subjected to fatigue loading using a novel crack arresting device
Publication: Research - peer-review › Journal article – Annual report year: 2017

Experimental study of strain prediction on wave induced structures using modal decomposition and quasi static Ritz vectors
Publication: Research - peer-review › Journal article – Annual report year: 2017

Finite element simulations of interactions between multiple hydraulic fractures in a poroelastic rock
Publication: Research - peer-review › Journal article – Annual report year: 2017
Geomechanics and geology: introduction
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Including product features in process redesign
Publication: Research - peer-review › Journal article – Annual report year: 2017

In Situ Investigation of the Evolution of Lattice Strain and Stresses in Austenite and Martensite During Quenching and Tempering of Steel
Publication: Research - peer-review › Journal article – Annual report year: 2017

Kinetics analysis of two-stage austenitization in supermartensitic stainless steel
Publication: Research - peer-review › Journal article – Annual report year: 2017

Kinetics modeling of delta-ferrite formation and retainment during casting of supermartensitic stainless steel
Publication: Research - peer-review › Journal article – Annual report year: 2017

Modal participation in multiple input Ibrahim time domain identification
Publication: Research - peer-review › Journal article – Annual report year: 2017

Nonlinear multigrid solvers exploiting AMGe coarse spaces with approximation properties
Publication: Research - peer-review › Journal article – Annual report year: 2017

Oma modal indication by sensitivity to added artificial noise
Juul, M. O., Olsen, P., Tarpe, M. & Brincker, R. 2017 IOMAC 2017 - 7th International Operational Modal Analysis Conference. p. 92-95
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

On minimizing the influence of the noise tail of correlation functions in operational modal analysis
Publication: Research - peer-review › Journal article – Annual report year: 2017

On the connectivity anisotropy in fluvial Hot Sedimentary Aquifers and its influence on geothermal doublet performance
Publication: Research - peer-review › Journal article – Annual report year: 2017

Operational modal analysis based prediction of actual stress in an offshore structural model
Publication: Research - peer-review › Conference article – Annual report year: 2017

Pore-Scale Investigation of Crude Oil/CO₂ Compositional Effects on Oil Recovery by Carbonated Water Injection
Publication: Research - peer-review › Journal article – Annual report year: 2017
Damping characteristics of a footbridge: Mysteries and truths
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Fracture Toughness Characterization of Honeycomb Core Sandwich Composites in Mode - I: A Comparative Study
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

In Situ Techniques for the Investigation of the Kinetics of Austenitization of Supermartensitic Stainless Steel
Publication: Research - peer-review › Journal article – Annual report year: 2016

The impact of different aperture distribution models and critical stress criteria on equivalent permeability in fractured rocks
Publication: Research - peer-review › Journal article – Annual report year: 2016

The impact of in-situ stress and outcrop-based fracture geometry on hydraulic aperture and upscaled permeability in fractured reservoirs
Bisdom, K., Bertotti, G. & Nick, H. 2016 In : Tectonophysics. 69, Part A, p. 63-75
Publication: Research - peer-review › Journal article – Annual report year: 2016

The influence of facies heterogeneity on the doublet performance in low-enthalpy geothermal sedimentary reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2016

Projects:
Risk Based Asset Management of subsurface wells against corrosion and scale
Miraglia, S.
01/03/2017 → …
Project

Novel Productivity Enhancement Concept for a Sustainable Utilization of a Geothermal Resource
Nick, H.
01/03/2016 → 31/08/2019
Project

3D imaging center
01/01/2016 → 01/01/2021
Project
Activities:

**Applying LCA in decision making - the need and the future perspective**
Dong, Y. (Speaker), Miraglia, S. (Other), Manzo, S. (Other), Georgiadis, S. (Other), Sørup, H. J. D. (Other), Boriani, E. (Other), Hald, T. (Other), Thöns, S. (Other), Hauschild, M. Z. (Other)
10 May 2017
Activity: Talks and presentations › Conference presentations

**Making sense of big data for Produced Water Treatment**
Jørgensen, T. M. (Invited speaker)
17 Nov 2016
Activity: Talks and presentations › Conference presentations

**Fracture Toughness Characterization of Honeycomb Core Sandwich Composites in Mode - I: A Comparative Study**
Saseendran, V. (Speaker), Berggreen, C. (Lecturer), Leif A. Carlsson (Lecturer)
20 Mar 2016 → 22 Mar 2016
Activity: Talks and presentations › Conference presentations

**Biorefinery Öresund Conference ‘Biorefining from raw material to high value products’**
Cheali, P. (Speaker), Gernaey, K. V. (Speaker), Sin, G. (Speaker)
1 May 2012 → 30 Apr 2015
Activity: Talks and presentations › Conference presentations